

WHAT IS CLAIMED IS:

1. An image obtaining method in which an image information receiver selects a name of a desired file on the basis of the information of a directory presented from an image pick-up device and receives an image file of the selected file name, wherein:

the image pick-up device has functions for picking up an image upon request for a file and transmitting an image file obtained upon picking up the image and transmits the information of a directory in which the names of function files indicating at least the functions are registered to the image information receiver;

the image information receiver selects the name of a desired function file on the basis of the transmitted information of the directory to request the image pick-up device to send an image file corresponding to the function file name;

the image pick-up device performs a function allocated to the function file name in accordance with the request for the file; and

the image information receiver receives the image file transmitted in accordance with the execution of the function allocated to the function file name.

2. The image obtaining method according claim 1, wherein the image pick-up device records an image obtained by executing the function allocated to the function file name on a recording medium.

3. The image obtaining method according to claim 1, wherein the information of the directories designates the names of paths to which the function file names belong or folders.

4. The image obtaining method according to claim 1, wherein the information of the directories include the file names of picked-up images.
5. The image obtaining method according to claim 1, wherein the image information receiver displays at least one of the file name, the directory name, the path name of a file and the size of a file on the basis of the information of the directories presented from the image pick-up device.
6. The image obtaining method according to claim 5, wherein the image information receiver calculates an expected communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.
7. The image obtaining method according to claim 1, wherein the image information receiver displays the information of the directories in a tree representation on the basis of the information of the directories presented from the image pick-up device.
8. The image obtaining method according to claim 1, wherein the image information receiver transmits and receives information to and from other communication devices other than the image pick-up device through public lines or communication networks and transmits the selected image file to the other communication devices.
9. The image obtaining method according to claim 1, comprising one of the steps of:
 - connecting the devices for transmitting and receiving the information

together by cables when the information is transmitted and received, and converting the information into an electric signal or an optical signal to transmit and receive the information by a wire communication; and

converting the information into an electric wave signal or an optical signal to transmit and receive the information by a wireless communication.

10. The image obtaining method according to claim 1, wherein the image information receiver can transmit and receive the information to and from the other communication devices other than the image pick-up device through the public lines or the communication networks and also can transmit and receive an audio signal thereto/therefrom.

11. The image obtaining method according to claim 1, wherein the image pick-up device sets a power conservation mode for decreasing the power consumption of the device and cancels the power conservation mode when the image pick-up device receives the information from the image information receiver upon setting the power conservation mode.

12. The image obtaining method according to claim 1, wherein the function file names are classified under at least one of parameters indicating image pick-up conditions and parameters indicating the properties of an image.

13. The image obtaining method according to claim 12, wherein the image-pick-up device transmits the parameters classified for each function so as to attach the parameters to the image file transmitted by executing the function allocated to the function file name.

14. The image obtaining method according to claim 12, wherein the

parameters indicating the image pick-up conditions include at least one of an exposure condition, a flash light emitting condition, a white balance condition, a focus condition and a zoom condition, and the parameters indicating the properties of the image include at least one of the number of pixels, a compressibility, a sampling method and color information.

15. The image obtaining method according to claim 14, wherein the image-pick-up device transmits the parameters classified for each function so as to attach the parameters to the image file transmitted by executing the function allocated to the function file name.

16. The image obtaining method according to claim 12, wherein the information of the directories is registered with names indicating the image pick-up conditions or the properties of the image.

17. The image obtaining method according to claim 12, wherein the directories constitute a layered structure and are classified for each of parameters showing a plurality of image pick-up conditions and the properties of the image.

18. The image obtaining method according to claim 12, wherein the information of the directories include the file names of picked-up images.

19. The image obtaining method according to claim 12, wherein expected file sizes after the image is picked-up on the basis of the parameters showing the image pick-up conditions and the properties of the image are registered as well as the file names in the information of the directories.

20. The image obtaining method according to claim 19, wherein the image

information receiver calculates an expected communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.

21. The image obtaining method according to claim 12, wherein the image information receiver displays at least one of the file name, the directory name, the path name of a file and the size of a file on the basis of the information of the directories presented from the image pick-up device.

22. The image obtaining method according to claim 21, wherein the image information receiver calculates an expected communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.

23. The image obtaining method according to claim 12, wherein the image information receiver displays the information of the directories in a tree representation on the basis of the information of the directories presented from the image pick-up device.

24. The image obtaining method according to claim 12, wherein the image information receiver transmits and receives information to and from other communication devices other than the image pick-up device through public lines or communication networks and transmits the selected image file to the other communication devices.

25. The image obtaining method according to claim 12, comprising one of

the steps of:

connecting the devices for transmitting and receiving the information together by cables when the information is transmitted and received, and converting the information into an electric signal or an optical signal to transmit and receive the information by a wire communication; and

converting the information into an electric wave signal or an optical signal to transmit and receive the information by a wireless communication.

26. The image obtaining method according to claim 12, wherein the image information receiver can transmit and receive the information to and from the other communication devices other than the image pick-up device through the public lines or the communication networks and also can transmit and receive an audio signal thereto/therefrom.

27. The image obtaining method according to claim 12, wherein the image pick-up device sets a power conservation mode for decreasing the power consumption of the device and cancels the power conservation mode when the image pick-up device receives the information from the image information receiver upon setting the power conservation mode.

28. An image pick-up device, comprising:

a communicating device which transmits and receives information to and from an image information receiver for receiving an image file;

an information processing device which instructs the information of directories in which the file names of functions indicating at least a function for picking up an image are registered to be transmitted to the image information receiver through the communicating device; and

an image pick-up device which picks up an image allocated to the

function file name when the image information receiver requests to transmit a file corresponding to the function file name,

wherein the information processing device transmits the image file obtained by picking up the image to the image information receiver through the communicating device.

29. The image pick-up device according to claim 28, wherein the image information processing device records an image obtained by executing the function allocated to the function file name on a recording medium.

30. The image pick-up device according to claim 28, wherein the names of paths to which the function file names belong or folders are registered in the information of the directories.

31. The image pick-up device according to claim 28, wherein names indicating the image pick-up conditions or the properties of the image are registered in the information of the directories.

32. The image pick-up device according to claim 28, wherein layered structures classified for each of parameters showing a plurality of image pick-up conditions and the properties of the image are registered in the directories.

33. The image pick-up device according to claim 28, wherein the information of the directories includes the file names of picked-up images.

34. The image pick-up device according to claim 28, wherein the information processing device registers expected file sizes after the image is picked-up on the basis of the parameters showing the image pick-up conditions

and the properties of the image are registered as well as the file names.

35. The image pick-up device according to claim 28, wherein the communicating device is at least one of:

a communicating device serving to connect devices for transmitting and receiving the information together by cables so as to convert the information into an electric signal or an optical signal and transmit and receive the information by a wire communication; and

a communicating device serving to convert the information into an electric wave signal or an optical signal and transmit and receive the information by a wireless communication.

36. The image pick-up device according to claim 28, wherein the information processing device is provided with a power conservation setting device which sets a power conservation mode for decreasing the power consumption of the image pick-up device and canceling the power conservation mode when the image pick-up device receives the information from the image information receiver upon setting the power conservation mode.

37. The image pick-up device according to claim 28, wherein the information processing device instructs the information of the directories in which the function file names are classified under at least one of parameters indicating image pick-up conditions and parameters indicating the properties of an image to be transmitted to the image information receiver through the communicating device.

38. The image pick-up device according to claim 37, wherein the parameters indicating the image pick-up conditions include at least one of an exposure

condition, a flash light emitting condition, a white balance condition, a focus condition and a zoom condition, and the parameters indicating the properties of the image include at least one of the number of pixels, a compressibility, a sampling method and color information.

39. The image pick-up device according to claim 37, further comprising:

a converted image generating device which generates a converted image in which the parameters indicating the properties of the image are changed relative to an image got by an image picking up operation as required,

wherein the image processing device transmits the converted image thus generated to the image information receiver.

40. The image pick-up device according to claim 39, wherein the parameters indicating the image pick-up conditions include at least one of an exposure condition, a flash light emitting condition, a white balance condition, a focus condition and a zoom condition, and the parameters indicating the properties of the image include at least one of the number of pixels, a compressibility, a sampling method and color information.

41. The image pick-up device according to claim 39, wherein the information processing device transmits the parameters classified for each of functions attached with the image file transmitted by executing the function allocated to the function file name.

42. The image pick-up device according to claim 37, wherein the information processing device transmits the parameters classified for each of functions attached with the image file transmitted by executing the function allocated to the function file name.

43. The image pick-up device according to claim 37, wherein the image information processing device records an image obtained by executing the function allocated to the function file name on a recording medium.

44. The image pick-up device according to claim 37, wherein the names of paths to which the function file names belong or folders are registered in the information of the directories.

45. The image pick-up device according to claim 37, wherein names indicating the image pick-up conditions or the properties of the image are registered in the information of the directories.

46. The image pick-up device according to claim 37, wherein layered structures classified for each of parameters showing a plurality of image pick-up conditions and the properties of the image are registered in the directories.

47. The image pick-up device according to claim 37, wherein the information of the directories includes the file names of picked-up images.

48. The image pick-up device according to claim 37, wherein the information processing device registers expected file sizes after the image is picked-up on the basis of the parameters showing the image pick-up conditions and the properties of the image are registered as well as the file names.

49. The image pick-up device according to claim 37, wherein the communicating device is at least one of:

a communicating device serving to connect devices for transmitting and

receiving the information together by cables so as to convert the information into an electric signal or an optical signal and transmit and receive the information by a wire communication; and

a communicating device serving to convert the information into an electric wave signal or an optical signal and transmit and receive the information by a wireless communication.

50. The image pick-up device according to claim 37, wherein the information processing device is provided with a power conservation setting device which sets a power conservation mode for decreasing the power consumption of the image pick-up device and canceling the power conservation mode when the image pick-up device receives the information from the image information receiver upon setting the power conservation mode.

51. An image pick-up information transmitting system, comprising:

a communicating device capable of transmitting and receiving information to and from an image information receiver for receiving an image file;

an information processing device which instructs the information of directories in which the file names of functions indicating at least a function for picking up an image are registered to be transmitted to the image information receiver through the communicating device; and

an image pick-up device which picks up an image allocated to the function file name when the image information receiver requests to transmit a file corresponding to the function file name, wherein:

the information processing device comprises: an image pick-up device which transmits an image file obtained by picking up the image to the image information receiver through the communicating device;

a first communicating device capable of transmitting and receiving the information to and from the image pick-up device;

a display for displaying the information of the directories presented from the image pick-up device; and

a selecting device which selects and designates a desired function file name showing a desired function on the basis of the displayed information of the directories.

52. The image pick-up information transmitting system according to claim 51, wherein the information processing device records an image obtained by executing the function allocated to the function file name on a recording medium.

53. The image pick-up information transmitting system according to claim 51, wherein the names of paths to which the function file names belong or folders are registered in the information of the directories.

54. The image pick-up information transmitting system according to claim 51, wherein names indicating the image pick-up conditions or the properties of the image are registered in the information of the directories.

55. The image pick-up information transmitting system according to claim 51, wherein layered structures classified for each of the parameters indicating a plurality of image pick-up conditions or the properties of the image are registered in the directories.

56. The image pick-up information transmitting system according to claim 51, wherein the information of the directories includes the filenames of picked-

up images.

57. The image pick-up information transmitting system according to claim 51, wherein the information processing device registers expected file sizes after the image is picked-up on the basis of the parameters indicating the image pick-up conditions and the properties of the image as well as the file names.

58. The image pick-up information transmitting system according to claim 41, wherein the image information receiver calculates an expected communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.

59. The image pick-up information transmitting system according to claim 51, wherein the display displays at least one of the file name, the directory name, the path name of a file and the size of a file on the basis of the information of the directories presented from the image pick-up device.

60. The image pick-up information transmitting system according to claim 59, wherein the image information receiver calculates an expected communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.

61. The image pick-up information transmitting system according to claim 51, wherein the display displays the information of the directories in a tree representation on the basis of the information of the directories presented from the image pick-up device.

62. The image pick-up information transmitting system according to claim 51, wherein the image information receiver is provided with a second communicating device capable of transmitting and receiving the information to and from other communication devices other than the image pick-up device through public lines or communication networks and the second communicating device transmits the selected desired image file to the other communication devices.

63. The image pick-up information transmitting system according to claim 62, wherein the second communicating device can transmit and receive the information to and from other communication devices other than the image pick-up device through the public lines or the communication networks and also can transmit and receive an audio signal thereto/therefrom.

64. The image pick-up information transmitting system according to claim 51, wherein the communicating device comprises at least one of:

a communicating device which serves to connect the mutual devices for transmitting and receiving the information together by cables so as to convert the information into an electric signal or an optical signal and transmit and receive the information by a wire communication; and

a communicating device which serves to convert the information into an electric wave signal or an optical signal and transmit and receive the information by a wireless communication.

65. The image pick-up information transmitting system according to claim 64, wherein the second communicating device can transmit and receive the information to and from other communication devices other than the image

pick-up device through the public lines or the communication networks and also can transmit and receive an audio signal thereto/therefrom.

66. The image pick-up information transmitting system according to claim 51, further comprising a power conservation mode setting device which sets a power conservation mode for decreasing the power consumption of the device and canceling the power conservation mode when the communicating device receives the information from the image information receiver upon setting the power conservation mode.

67. The image pick-up information transmitting system according to claim 51, wherein the information processing device instructs the information of the directories in which the function file names are classified under at least one of parameters indicating image pick-up conditions and parameters indicating the properties of an image to be transmitted to the image information receiver through the communicating device.

68. The image pick-up information transmitting system according to claim 67, wherein the parameters indicating the image pick-up conditions include at least one of an exposure condition, a flash light emitting condition, a white balance condition, a focus condition and a zoom condition, and the parameters indicating the properties of the image include at least one of the number of pixels, a compressibility, a sampling method and color information.

69. The image pick-up information transmitting system according to claim 67, further comprising:

a converted image generating device which generates a converted image in which the parameters showing the properties of the image are changed

relative to an image obtained by a picking up operation as required,

wherein the information processing device transmits the converted image thus generated to the image information receiver.

70. The image pick-up information transmitting system according to claim 69, wherein the parameters indicating the image pick-up conditions include at least one of an exposure condition, a flash light emitting condition, a white balance condition, a focus condition and a zoom condition, and the parameters indicating the properties of the image include at least one of the number of pixels, a compressibility, a sampling method and color information.

71. The image pick-up information transmitting system according to claim 67, wherein the information processing device transmits the parameters classified for each function so as to attach the parameters to the image file transmitted by executing the function allocated to the function file name.

72. The image pick-up information transmitting system according to claim 67, wherein the information processing device records an image obtained by executing the function allocated to the function file name on a recording medium.

73. The image pick-up information transmitting system according to claim 67, wherein the names of paths to which the function file names belong or folders are registered in the information of the directories.

74. The image pick-up information transmitting system according to claim 67, wherein names indicating the image pick-up conditions or the properties of the image are registered in the information of the directories.

75. The image pick-up information transmitting system according to claim 67, wherein layered structures classified for each of the parameters indicating a plurality of image pick-up conditions or the properties of the image are registered in the directories.

76. The image pick-up information transmitting system according to claim 67, wherein the information of the directories includes the filenames of picked-up images.

77. The image pick-up information transmitting system according to claim 67, wherein the information processing device registers expected file sizes after the image is picked-up on the basis of the parameters indicating the image pick-up conditions and the properties of the image as well as the file names.

78. The image pick-up information transmitting system according to claim 77, wherein the image information receiver calculates an expected communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.

79. The image pick-up information transmitting system according to claim 67, wherein the display displays at least one of the file name, the directory name, the path name of a file and the size of a file on the basis of the information of the directories presented from the image pick-up device.

80. The image pick-up information transmitting system according to claim 79, wherein the image information receiver calculates an expected

communication time required for acquiring the file on the basis of the file size and does not acquire the image when the expected communication time thus calculated is larger than a predetermined communication time threshold value.

81. The image pick-up information transmitting system according to claim 67, wherein the display displays the information of the directories in a tree representation on the basis of the information of the directories presented from the image pick-up device.

82. The image pick-up information transmitting system according to claim 67, wherein the image information receiver is provided with a second communicating device capable of transmitting and receiving the information to and from other communication devices other than the image pick-up device through public lines or communication networks and the second communicating device transmits the selected desired image file to the other communication devices.

83. The image pick-up information transmitting system according to claim 82, wherein the second communicating device can transmit and receive the information to and from other communication devices other than the image pick-up device through the public lines or the communication networks and also can transmit and receive an audio signal thereto/therefrom.

84. The image pick-up information transmitting system according to claim 67, wherein the communicating device comprises at least one of:

a communicating device which serves to connect the mutual devices for transmitting and receiving the information together by cables so as to convert the information into an electric signal or an optical signal and transmit and

receive the information by a wire communication; and

a communicating device which serves to convert the information into an electric wave signal or an optical signal and transmit and receive the information by a wireless communication.

85. The image pick-up information transmitting system according to claim 84, wherein the second communicating device can transmit and receive the information to and from other communication devices other than the image pick-up device through the public lines or the communication networks and also can transmit and receive an audio signal thereto/therefrom.

86. The image pick-up information transmitting system according to claim 67, further comprising a power conservation mode setting device which sets a power conservation mode for decreasing the power consumption of the device and canceling the power conservation mode when the communicating device receives the information from the image information receiver upon setting the power conservation mode.

87. A remote control method in which an information receiver selects a desired file name on the basis of the information of directories presented from an electronic device and receives the file of the selected file name from the electronic device, wherein:

the electronic device transmits the information of the directories in which the file names of functions indicating at least the function of the electronic device to the information receiver;

the image information receiver selects a desired function file name on the basis of the transmitted information of the directories to request the electronic device to perform an operation corresponding to the function file

name;

the electronic device executes a function allocated to the function file name in accordance with the request and transmits a response in accordance with the execution of the function to the image information receiver; and

the image information receiver receives the response.

88. The remote control method according to claim 87, wherein the response transmitted by the electronic device is a file with a description indicating the result of the operation.

89. An image transmitter for transmitting a print image to a printer, comprising:

an image input device which picks up or inputting an image;

a deciding device which decides whether or not the image size of the input image thus inputted or an edited image obtained by editing the input image is larger than an image size required for printing by the printer;

an image processing device which resizes the size of the input image or the edited image so as to be an image size required for printing to generate the print image when it is decided that the image size is larger by the deciding device; and

a communicating device which transmits the input image or the edited image to the printer as the print image when it is decided that the image size of the input image or the edited image is not larger by the deciding device, and transmits the print image generated by the image processing device to the printer when it is decided that the size of the input image or the edited image is larger.

90. The image transmitter according to claim 89, further comprising:

a display for displaying the inputted image;

an input device which inputs and sets at least one print information of print range information and resolution information upon printing the displayed image; and

an information processing device which edits the image on the basis of the print information.

91. The image transmitter according to claim 90, wherein:

the communicating device receives at least one print condition of the resolution of the printer and a print sheet condition from the printer;

the display displays the print condition; and

the input device inputs the print information on the basis of the print condition.

92. A print system, comprising:

an image transmitter including:

an image input device which picks up or inputs an image,

a first display which displays the inputted image,

a first input device which inputs and sets print information upon printing the displayed image,

a deciding device which decides whether or not the size of the input image thus inputted or an edited image obtained by editing the input image on the basis of the print information is larger than an image size required for printing by a printer,

an image processing device which resizes the size of the input image or the edited image so as to be an image size required for printing to generate a print image when the deciding device decides that the image size is larger, and

a first communicating device which transmits the input image or

the edited image and the print information when it is decided that the size of the input image or the edited image is not larger by the deciding device, and transmits the print image generated by the image processing device and the print information to the printer when it is decided that the size of the input image or the edited image is larger; and

a printer including a second communicating device which receives the image and the print information transmitted from the first communicating device, a second display which displays at least the print information, and a print device which prints the image on the basis of the received image or the received image and the print information.

93. The print system according to claim 92, wherein the print information includes at least one of a print quantity, print size information, trimming information, print sheet information, and print tone information and print density information.

94. The print system according to claim 92, wherein the printer is provided with a second input device which edits the image or the print information displayed by the second display to desired information.

95. The print system according to claim 94, wherein the print information includes at least one of a print quantity, print size information, trimming information, print sheet information, and print tone information and print density information.

96. The print system according to claim 92, wherein:

the second communicating device transmits at least one print condition of the resolution of the printer and a print sheet condition;

the first communicating device receives the print condition from the printer;

the first display displays the print condition; and

the first input device inputs the print information on the basis of the print condition.

97. The print system according to claim 96, wherein the printer is provided with a second input device which edits the image or the print information displayed by the second display to desired information.

98. The print system according to claim 96, wherein the print information includes at least one of a print quantity, print size information, trimming information, print sheet information, and print tone information and print density information.